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CENTRAL INTELLIGENCE AGENCY

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INFORMATION REPORT

REPORT

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COUNTRY Poland

DO NOT CIRCULATE

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SUBJECT 1. Physics Institutes
2. Naval Radio Service for Ships

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1. Besides the Radio-Technical Institute at Gdynia, there are also two Physics Institutes, one under Prof. Dr. A. Piekara, the other under Prof. Dr. I. Adamczewski. Both of these institutes use inexpensive and simple equipment since no other equipment is obtainable in Poland. Both are engaged in research on cosmic rays based on core disintegration in photographic plates utilizing the Geiger-Mueller Indicator. Results so far have been negligible due to the lack of competent personnel. This is reported to be true of all physics institutes in Poland.
2. The institute under Piekara is attempting to build a cyclotron but so far little or no success has been achieved. The mounting of the magnet has already been accomplished but technical difficulties in the vacuum apparatus have practically stopped the work. The institute under Dr. Adamczewski has built a Van de Graff generator capable of producing 200 kilowatts. Plans regarding the use of this machine include the mounting of a pipe for bombarding atomic cores with high speed electrons. As with the cyclotron, the vacuum apparatus presented great difficulties. Further work in this direction is being done in the Physics Institute of the University of Warsaw (Zaklad Fizyki Uniwersytetu Warszawskiego). An Atomic Hall has been built on Hoza Street near the 'institute' and will be equipped with a large capacity generator. Little is known of this work except that it is in the hands of Professor Leonard Sosnowski who is known for his work in infra-red waves. Sosnowski is assisted by Professor (fnu) Soltan and Professor (fnu) Pienkowski.
3. Training of radio technicians has not been satisfactory. The electrician attached to the Navy in Gdynia in early 1951 was not able to service the equipment and all repairs had to be made by the Naval Radio Service for Ships (Morska Obsluga Radiowa Statkow - MORS) in Gdansk, Narwik district.

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4. MORS is the owner of all radio equipment on ships and maintains repair shops and a construction office. Various devices have been built by MORS and include equipment for frequency control in maritime transmitters, in echo sound, a maneuver transmitter for nine loudspeaker-microphones and an automatic key for help signals for auto-alarm.

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